

FIG. 1

10037882.010402

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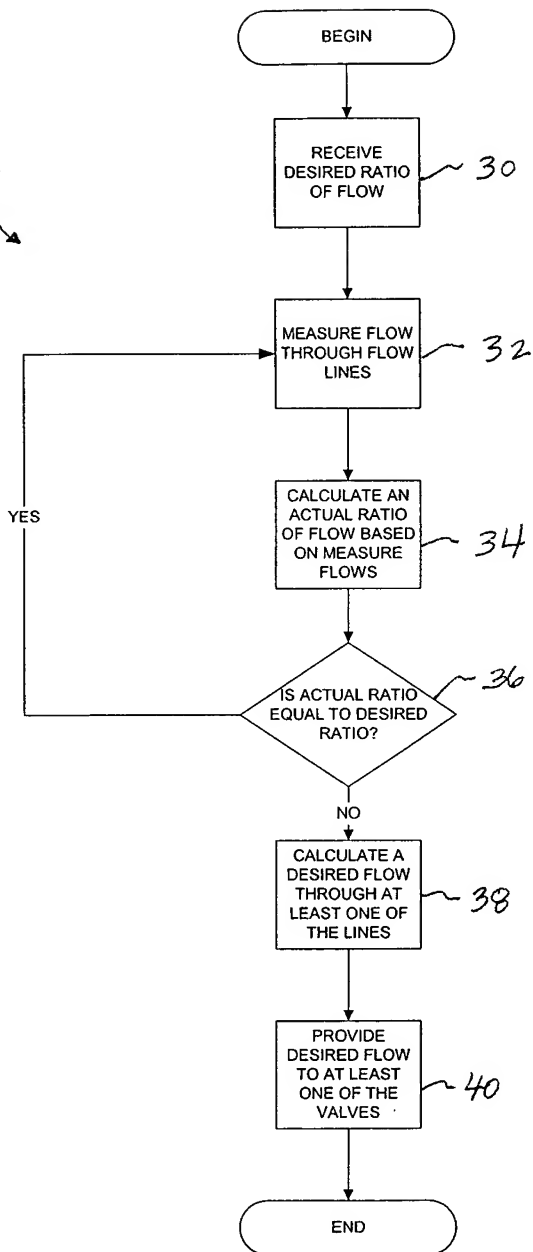


FIG. 2

Alpha Control Range $Q_{min} = 100\text{sccm}$

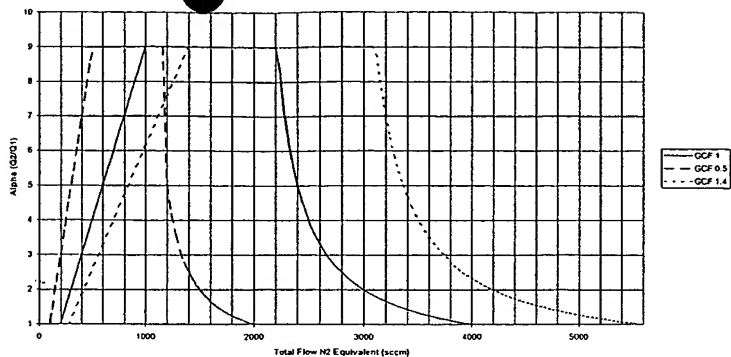


FIG. 3

Alpha Control Range $Q_{min} = 200\text{sccm}$

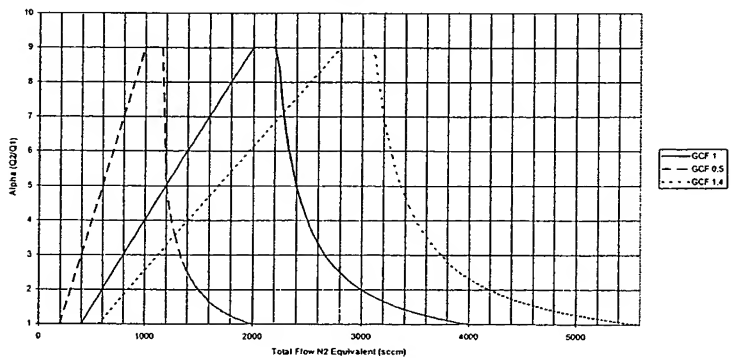


FIG. 4

User interface - 15 D connector Pin out:

Pin	Assignment	Description
1	NC	
2	Flow Ratio Output	0 - 5 Volts, 5mA max 1 = 1:1, 5 = 10:1
3	NC	
4	Valves open	TTL low = valve open
5	Power Common	Power Supply Return
6	-15 VDC Supply	1% Regulated 1 Amp max
7	+15 VDC Supply	1% Regulated 1 Amp max
8	Flow Ratio Command	0 - 5 Volts
9	ALARM	Alpha out of range
10	NC	
11	Signal Common	
12	Signal Common	
13	Disable	TTL low disables the device (Valves shut)
14	Ratio Range Switch	Low = Alpha from 0.1:1 High=1:10
15	Chassis Ground	

FIG. 5

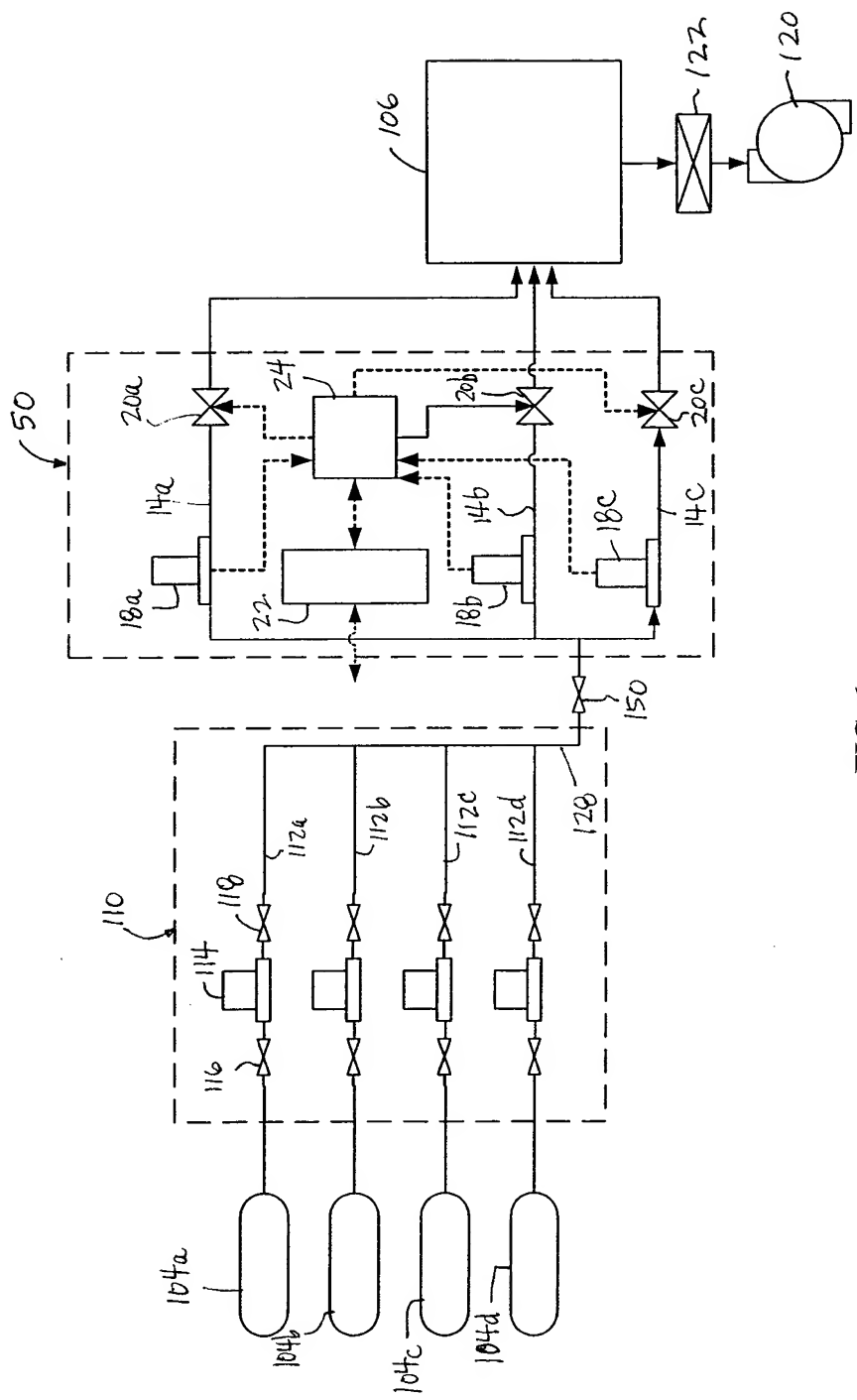


FIG. 6

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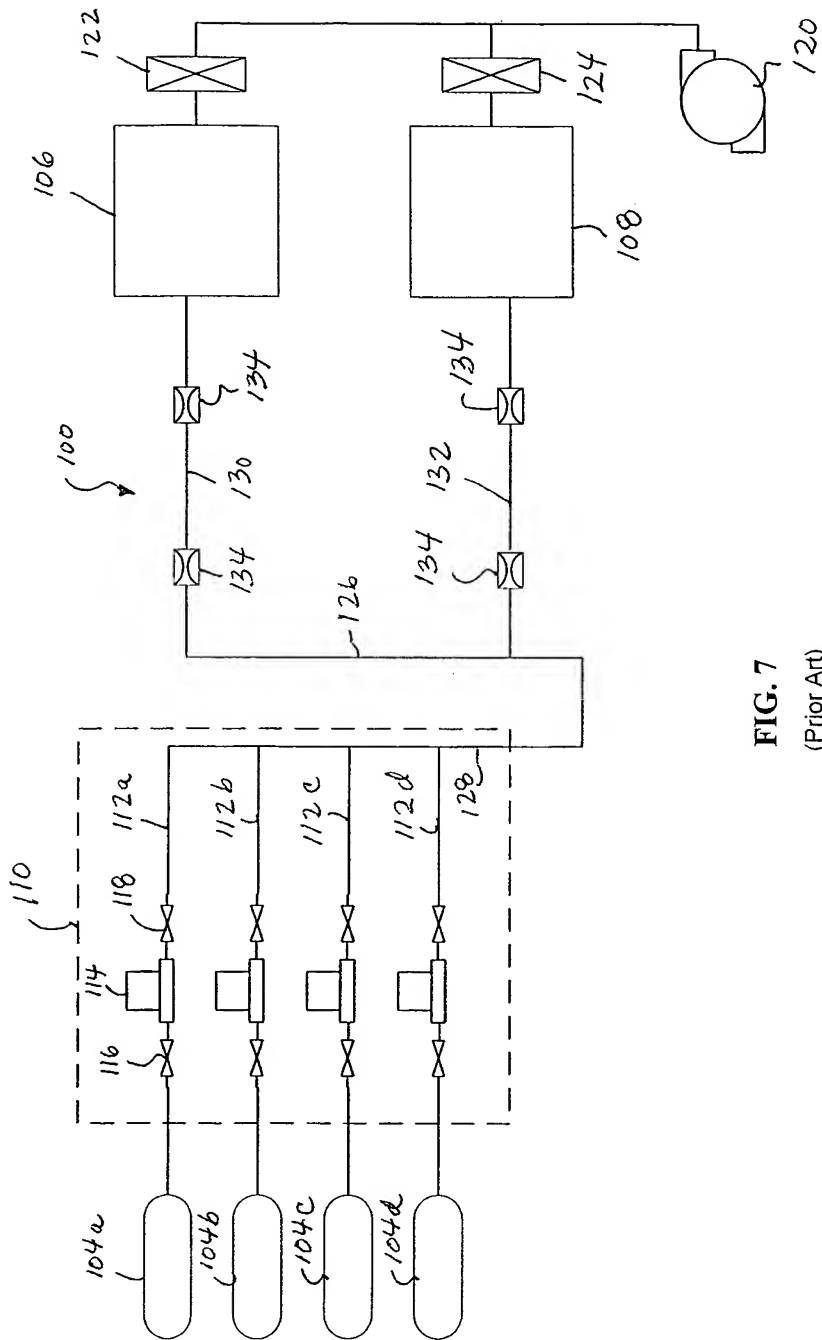


FIG. 7
(Prior Art)

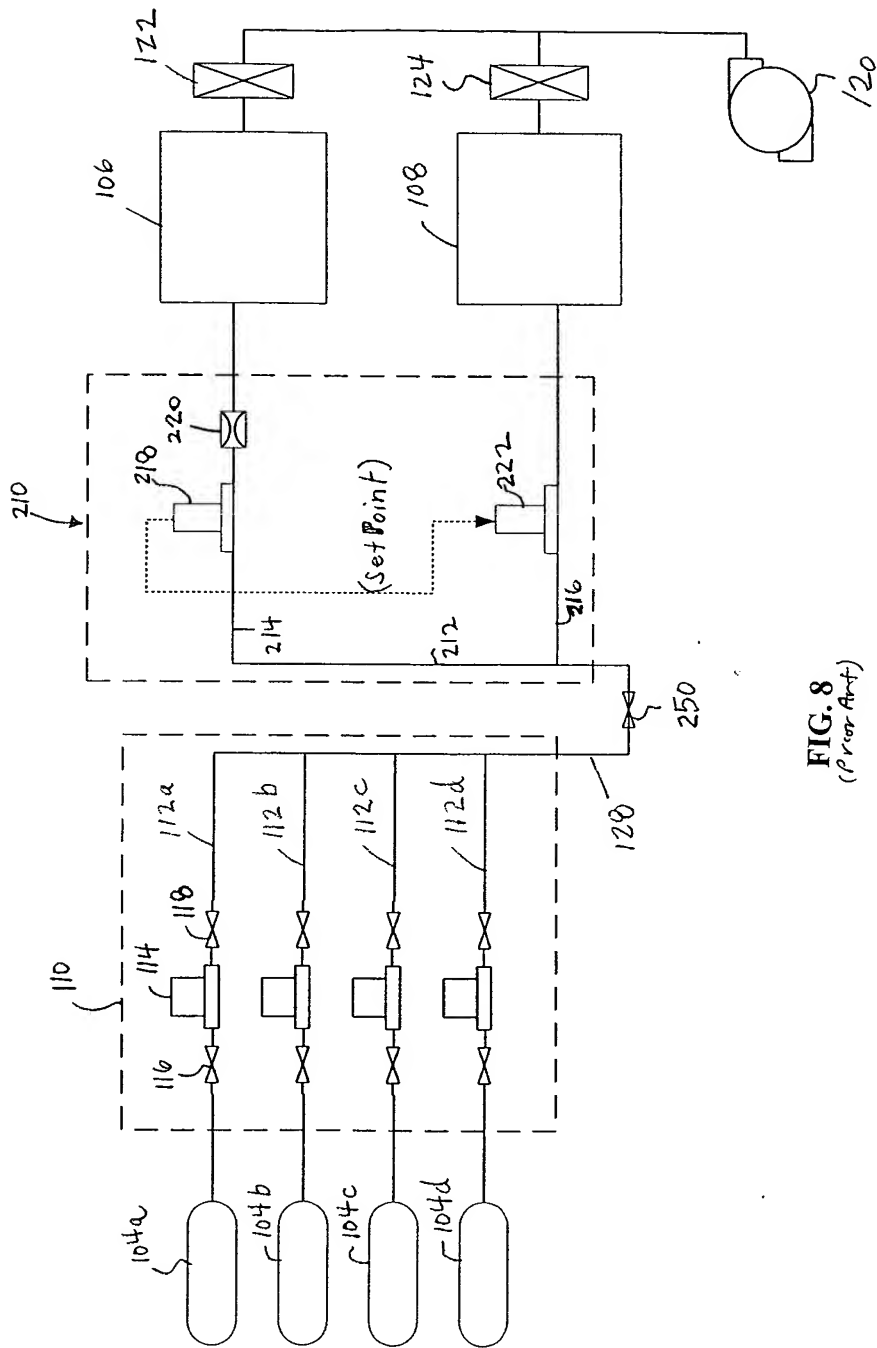


FIG. 8
(Prior Art)

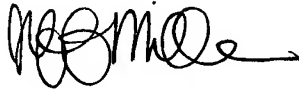
Serial No.: 10/037,882

Enclosed is a check for \$130.00 as required by 37 C.F.R. § 17(h). No additional costs are believed to be due in connection with the filing of this Petition to Change the Order of Names of Originally Named Inventors. However, should any fees be due, please charge our Deposit Account No. 50-1133. A duplicate copy of this page is enclosed for this purpose.

Respectfully submitted,
McDermott, Will & Emery

Date: _____

8-1-03



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